

PRESS RELEASE

More Flexibility for the Packaging Industry

New variable-image-field 3D scan system for CO₂ lasers

Puchheim, Germany – June 23, 2017 – As the leading OEM manufacturer of high quality scan systems, SCANLAB GmbH is presenting a new 3D scan solution for industrial cutting and welding applications with multi-kW CO₂ lasers at this June's Laser World of Photonics tradeshow in Munich, Germany. The powerSCAN II's low-mass 50 mm mirrors enable small spots together with high dynamic performance. Thanks to the integrated FLEX functionality, the image field size is freely adjustable to suit a broad range of applications, thus making the scan head particularly compelling for the paper, packaging and textile industries.



Laser trimming can offer considerable process advantages in any industrial sector that involves workpiece fabrication via cutting dies or punching tools. For some time now, CO₂ lasers have been increasingly employed for trimming such diverse organic materials as paper, cardboard, wood, textiles and leather. After all, lasers teamed with a scanner work cleanly as well as

wear-free, and they allow flexible changing of cutting shapes anytime. To users, that's a huge advantage for complex cutting shapes or patterns, and also for individualized products and small production runs.

SCANLAB's new 3D scan system is a flexible solution that can significantly reduce tool and process costs. At the press of a button, it's FLEX option enables step-less, motorized attainment of image field sizes from 250 x 250 mm² up to 1500 x 1500 mm². Thus, various spot sizes and working distances can be simultaneously set for a range of applications. Here, the integrated z-axis extends the image field into the third dimension, thereby facilitating precise laser processing, even of non-planar workpieces.

The powerSCAN II is available with assorted application-specific tunings – for high line speeds or for high contour-fidelity when cutting complex patterns. The digital servo electronics permits easy switching between these tuning options to always ensure the perfect dynamics settings for each application.

Industrial suitability and small footprint

Compared to its predecessor, the new scan head is considerably more compact. Its footprint alone has shrunk by about a third, and height has been reduced – a tremendous gain for integrators and machine builders who can now more easily position and simultaneously operate individual or multiple systems side-by-side. The new housings are sealed and dust-protected. Furthermore, the beam exit is equipped with an exchangeable window for protection against process emissions. Rounding out the

system's industrial suitability is the continuous status monitoring of all scan head axes, and transmission of a combined interlock signal. In the event of a fault, this can facilitate quick system shutdown and thus prevent wastage or further damage.

"The powerSCAN II signifies the continuous development of our product portfolio. Flexibility via a 'quasi fourth axis' and fundamentally redesigned digital electronics result in an exceptionally attractive overall package for high-power applications with large image fields," explains SCANLAB GmbH CEO Georg Hofner. "Initial test systems have already been shipped and are being put through their paces in industrial processing tasks."

Print-quality images can be downloaded at
<http://www.scanlab.de/en/news-events/image-library>.

Current Tradeshow Calendar:

LASER World of Photonics Munich 2017 from June 26 – 29, 2017 in Munich, Germany – Hall A2, Booth 215.

About SCANLAB:

With over 20,000 systems produced annually, SCANLAB GmbH is the world-leading and independent OEM manufacturer of scan solutions for deflecting and positioning laser beams in three dimensions. Its exceptionally fast and precise high-performance galvanometer scanners, scan heads and scan systems find application in industrial materials processing and the electronics, food and beverage industries, as well as biotech and medical technology. For over 25 years, SCANLAB has secured its international technology leadership through pioneering developments in electronics, mechanics, optics and software, as well as the highest quality standards.

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